## **IN THE CLAIMS**:

Please AMEND claim 12 as follows.

- 1. (Previously Presented) A mold apparatus, comprising:
- (a) a first mold unit;
- (b) a second mold unit;
- (c) a sprue bush disposed in one of the first and second mold units and having a sprue for charging a molding material into a cavity space;
- (d) a machining member disposed in the other of the first and second mold units in such a manner that the machining member can be advanced and retracted, the machining member performing a predetermined machining for a prototype of a molded product when the machining member is advanced;
- (e) a bush disposed radially outward of the machining member to surround the machining member and having a flow passage which is formed in a front end portion thereof and through which a temperature control medium flows;
  - (f) a support member is disposed between the machining member and bush,
- (g) wherein the support member extends rearward from a center portion of a discshaped member in the thickness direction.

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- 2. (Original) A mold apparatus according to claim 1, wherein an annular flow passage through which a temperature control medium flows is formed in a front end portion of the sprue bush.
- 3. (Previously Presented) A mold apparatus according to claim 2, wherein the radial dimension of a flow passage of the sprue bush is greater than an inner diameter of a supply passage for supplying the temperature control medium to the flow passage of the sprue bush.
- 4. (Original) A mold apparatus according to claim 1, wherein the flow passage formed in the front end portion of the bush is an annular flow passage.
- 5. (Previously Presented) A mold apparatus according to claim 1, further comprising:
- (a) the support member extends rearward from a position near the flow passage formed in the front end portion of the bush.
- 6. (Original) A mold apparatus according to claim 5, wherein the supply passage for supplying the temperature control medium to the flow passage of the bush is formed along the support member.

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7. (Original) A mold apparatus according to claim 5, wherein a discharge passage for discharging a lubricant used for lubricating the support member is formed in the machining member.

## 8. (Cancelled)

- 9. (Previously Presented) A method of molding a product in a mold apparatus comprising a first mold unit; a second mold unit; a sprue bush disposed in one of the first and second mold units and having a sprue; a machining member disposed in the other of the first and second mold units in such a manner that the machining member can be advanced and retracted; a bush disposed radially outward of the machining member to surround the machining member; and a support member disposed between the machining member and the bush, wherein the support member extends rearward from a center position of a disc-shaped member in the thickness direction, the method comprising the steps of:
  - (a) charging a molding material into the cavity space via the sprue;
- (b) cooling the molding material so as to form a prototype of the molded product; and
- (c) advancing the machining member along an inner circumferential surface of the bush via the support member so as to perform a predetermined machining on the prototype of the molded product.

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10. (Previously Presented) A molding machine equipped with the mold apparatus as described in claim 1.

## 11. (Previously Presented) A bush, comprising:

a housing comprising a cylindrical shape, wherein the housing is configured to surround a machining member radially outward, and a support member which extends rearward from a center portion of a disc-shaped member in the thickness direction,

wherein the bush is configured for a disc-molding mold comprising

a first mold unit;

a second mold unit;

a sprue bush disposed in one of the first and second mold units and comprising a sprue configured to charge a molding material into a cavity space; and

the machining member disposed in the other of the first and second mold units in such a manner that the machining member can be advanced and retracted;

wherein the machining member is configured to perform a predetermined machining for a prototype of a molded product when the machining member is advanced.

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12. (Currently Amended) A bush according to claim 11, wherein the disc-molding mold further comprises further comprising a flow passage through which a temperature control medium flows formed near the front end portion thereofof the bush.